



CAM AND GROOVE REFERENCE GUIDE

Cam and Groove Pressure Chart By Material						
Size	Aluminum	SS 316	Ductile	Brass	Nylon	Poly
1/2"	250	250	250	150	175	125
3/4"	250	250	250	150	175	125
1"	250	250	250	150	175	125
1-1/4"	250	250	250	150	150	125
1-1/2"	250	250	250	150	150	125
2"	250	250	250	150	150	125
2-1/2"	150	150	150	150		125
3"	150	150	150	150	75	75
4"	150	150	150	150	75	75
5"	75	75	75	75		
6"	75	75	75	75		
8"	50					
10"	50					

PART A

MALE ADAPTER



FEMALE NPT

Material	Temperature Range
Aluminum	-101C to +121C(-150F to +250F)
SS 316	-101C to +260C(-150F to +500F)
Ductile	-29C to +260C(-20F to +500F)
Brass	-101C to +232C(-150F to +450F)
Polypropylene	-26C to +66C(-15F to +150F)
Nylon	-34C to +121C(-30F to +250F)

All sizes except 5" and 8" are made to comply with MIL Specification A-A-59326. These sizes comply with ASTM Specifications 1/2" x 1/2" are not specified under MIL Specification.

Cam and Groove Pressure Chart By Material						
Size	Aluminum	SS 316	Ductile	Brass	Nylon	Poly
1/2"	250	250	250	150	175	125
3/4"	250	250	250	150	175	125
1"	250	250	250	150	175	125
1-1/4"	250	250	250	150	150	125
1-1/2"	250	250	250	150	150	125
2"	250	250	250	150	150	125
2-1/2"	150	150	150	150	150	125
3"	150	150	150	150	75	75
4"	150	150	150	150	75	75
5"	75	75	75	75		
6"	75	75	75	75		
8"	50					
10"	50					

PART B

MALE NPT



FEMALE COUPLER

Material	Temperature Range
Aluminum	-101C to +121C(-150F to +250F)
SS 316	-101C to +260C(-150F to +500F)
Ductile	-29C to +260C(-20F to +500F)
Brass	-101C to +232C(-150F to +450F)
Polypropylene	-26C to +66C(-15F to +150F)
Nylon	-34C to +121C(-30F to +250F)

Gasket	
Nitrile (Standard For All)	-40C to +100C(-40F to +212F)
EPDM (Nylon and PP)	-51C to +100C(-60F to +212F)
Viton (Optional)	-17C to +248C(+1F to +480F)

Hardware	
Pins and Rings (Aluminum)	Zinc Plated Carbon Steel
Safety Clips (Aluminum)	Zinc Plated Carbon Steel
Pins and Rings (Others)	Stainless
Safety Clip (Others)	Stainless

Handles	
Aluminum and Brass	Forged Brass
Others	Investment Cast SS

All sizes except 5" and 8" are made to comply with MIL Specification A-A-59326. These sizes comply with ASTM Specifications 1/2" x 1/2" are not specified under MIL Specification.

Cam and Groove Pressure Chart By Material						
Size	Aluminum	SS 316	Ductile	Brass	Nylon	Poly
1/2"	250	250	250	150	175	125
3/4"	250	250	250	150	175	125
1"	250	250	250	150	175	125
1-1/4"	250	250	250	150	150	125
1-1/2"	250	250	250	150	150	125
2"	250	250	250	150	150	125
2-1/2"	150	150	150	150	150	125
3"	150	150	150	150	75	75
4"	150	150	150	150	75	75
5"	75	75	75	75		
6"	75	75	75	75		
8"	50					
10"	50					

PART C

HOSE SHANK



FEMALE COUPLER

Material	Temperature Range
Aluminum	-101C to +121C(-150F to +250F)
SS 316	-101C to +260C(-150F to +500F)
Ductile	-29C to +260C(-20F to +500F)
Brass	-101C to +232C(-150F to +450F)
Polypropylene	-26C to +66C(-15F to +150F)
Nylon	-34C to +121C(-30F to +250F)

Gasket	
Nitrile (Standard For All)	-40C to +100C(-40F to +212F)
EPDM (Nylon and PP)	-51C to +100C(-60F to +212F)
Viton (Optional)	-17C to +248C(+1F to +480F)

Hardware	
Pins and Rings (Aluminum)	Zinc Plated Carbon Steel
Safety Clips (Aluminum)	Zinc Plated Carbon Steel
Pins and Rings (Others)	Stainless
Safety Clip (Others)	Stainless

Handles	
Aluminum and Brass	Forged Brass
Others	Investment Cast SS

All sizes except 5" and 8" are made to comply with MIL Specification A-A-59326. These sizes comply with ASTM Specifications 1/2" x 1/2" are not specified under MIL Specification.

Cam and Groove Pressure Chart By Material						
Size	Aluminum	SS 316	Ductile	Brass	Nylon	Poly
1/2"	250	250	250	150	175	125
3/4"	250	250	250	150	175	125
1"	250	250	250	150	175	125
1-1/4"	250	250	250	150	150	125
1-1/2"	250	250	250	150	150	125
2"	250	250	250	150	150	125
2-1/2"	150	150	150	150	150	125
3"	150	150	150	150	75	75
4"	150	150	150	150	75	75
5"	75	75	75	75		
6"	75	75	75	75		
8"	50					
10"	50					

PART D

FEMALE NPT



FEMALE COUPLER

Material	Temperature Range
Aluminum	-101C to +121C(-150F to +250F)
SS 316	-101C to +260C(-150F to +500F)
Ductile	-29C to +260C(-20F to +500F)
Brass	-101C to +232C(-150F to +450F)
Polypropylene	-26C to +66C(-15F to +150F)
Nylon	-34C to +121C(-30F to +250F)

Gasket	
Nitrile (Standard For All)	-40C to +100C(-40F to +212F)
EPDM (Nylon and PP)	-51C to +100C(-60F to +212F)
Viton (Optional)	-17C to +248C(+1F to +480F)

Hardware	
Pins and Rings (Aluminum)	Zinc Plated Carbon Steel
Safety Clips (Aluminum)	Zinc Plated Carbon Steel
Pins and Rings (Others)	Stainless
Safety Clip (Others)	Stainless

Handles	
Aluminum and Brass	Forged Brass
Others	Investment Cast SS

All sizes except 5" and 8" are made to comply with MIL Specification A-A-59326. These sizes comply with ASTM Specifications 1/2" x 1/2" are not specified under MIL Specification.

Cam and Groove Pressure Chart By Material						
Size	Aluminum	SS 316	Ductile	Brass	Nylon	Poly
1/2"	250	250	250	150	175	125
3/4"	250	250	250	150	175	125
1"	250	250	250	150	175	125
1-1/4"	250	250	250	150	150	125
1-1/2"	250	250	250	150	150	125
2"	250	250	250	150	150	125
2-1/2"	150	150	150	150		125
3"	150	150	150	150	75	75
4"	150	150	150	150	75	75
5"	75	75	75	75		
6"	75	75	75	75		
8"	50					
10"	50					

**PART E**  
**HOSE SHANK**



**MALE ADAPTER**

Material	Temperature Range
Aluminum	-101C to +121C(-150F to +250F)
SS 316	-101C to +260C(-150F to +500F)
Ductile	-29C to +260C(-20F to +500F)
Brass	-101C to +232C(-150F to +450F)
Polypropylene	-26C to +66C(-15F to +150F)
Nylon	-34C to +121C(-30F to +250F)

All sizes except 5" and 8" are made to comply with MIL Specification A-A-59326. These sizes comply with ASTM Specifications 1/2" x 1/2" are not specified under MIL Specification.

Cam and Groove Pressure Chart By Material						
Size	Aluminum	SS 316	Ductile	Brass	Nylon	Poly
1/2"	250	250	250	150	175	125
3/4"	250	250	250	150	175	125
1"	250	250	250	150	175	125
1-1/4"	250	250	250	150	150	125
1-1/2"	250	250	250	150	150	125
2"	250	250	250	150	150	125
2-1/2"	150	150	150	150	150	125
3"	150	150	150	150	75	75
4"	150	150	150	150	75	75
5"	75	75	75	75		
6"	75	75	75	75		
8"	50					
10"	50					

**PART F**  
**MALE ADAPTER**



**MALE NPT**

Material	Temperature Range
Aluminum	-101C to +121C(-150F to +250F)
SS 316	-101C to +260C(-150F to +500F)
Ductile	-29C to +260C(-20F to +500F)
Brass	-101C to +232C(-150F to +450F)
Polypropylene	-26C to +66C(-15F to +150F)
Nylon	-34C to +121C(-30F to +250F)

All sizes except 5" and 8" are made to comply with MIL Specification A-A-59326. These sizes comply with ASTM Specifications 1/2" x 1/2" are not specified under MIL Specification.

Cam and Groove Pressure Chart By Material						
Size	Aluminum	SS 316	Ductile	Brass	Nylon	Poly
1/2"	250	250	250	150	175	125
3/4"	250	250	250	150	175	125
1"	250	250	250	150	175	125
1-1/4"	250	250	250	150	150	125
1-1/2"	250	250	250	150	150	125
2"	250	250	250	150	150	125
2-1/2"	150	150	150	150	150	125
3"	150	150	150	150	75	75
4"	150	150	150	150	75	75
5"	75	75	75	75		
6"	75	75	75	75		
8"	50					
10"	50					

**DUST CAP**



**FEMALE COUPLER**

Material	Temperature Range
Aluminum	-101C to +121C(-150F to +250F)
SS 316	-101C to +260C(-150F to +500F)
Ductile	-29C to +260C(-20F to +500F)
Brass	-101C to +232C(-150F to +450F)
Polypropylene	-26C to +66C(-15F to +150F)
Nylon	-34C to +121C(-30F to +250F)

Gasket	
Nitrile (Standard For All)	-40C to +100C(-40F to +212F)
EPDM (Nylon and PP)	-51C to +100C(-60F to +212F)
Viton (Optional)	-17C to +248C(+1F to +480F)

Hardware	
Pins and Rings (Aluminum)	Zinc Plated Carbon Steel
Safety Clips (Aluminum)	Zinc Plated Carbon Steel
Pins and Rings (Others)	Stainless
Safety Clip (Others)	Stainless

Handles	
Aluminum and Brass	Forged Brass
Others	Investment Cast SS

All sizes except 5" and 8" are made to comply with MIL Specification A-A-59326. These sizes comply with ASTM Specifications 1/2" x 1/2" are not specified under MIL Specification.

Cam and Groove Pressure Chart By Material						
Size	Aluminum	SS 316	Ductile	Brass	Nylon	Poly
1/2"	250	250	250	150	175	125
3/4"	250	250	250	150	175	125
1"	250	250	250	150	175	125
1-1/4"	250	250	250	150	150	125
1-1/2"	250	250	250	150	150	125
2"	250	250	250	150	150	125
2-1/2"	150	150	150	150	150	125
3"	150	150	150	150	75	75
4"	150	150	150	150	75	75
5"	75	75	75	75		
6"	75	75	75	75		
8"	50					
10"	50					

**DUST PLUG**



**MALE ADAPTER**

Material	Temperature Range
Aluminum	-101C to +121C(-150F to +250F)
SS 316	-101C to +260C(-150F to +500F)
Ductile	-29C to +260C(-20F to +500F)
Brass	-101C to +232C(-150F to +450F)
Polypropylene	-26C to +66C(-15F to +150F)
Nylon	-34C to +121C(-30F to +250F)

All sizes except 5" and 8" are made to comply with MIL Specification A-A-59326. These sizes comply with ASTM Specifications 1/2" x 1/2" are not specified under MIL Specification.



9555 Henri Bourassa Ouest Ville St Laurent, Quebec H4S 1S7  
email: sales@amiflex.com

Téléphone: 514.336.2480  
Toll Free: 888.775.4673 (HOSE)  
Télécopieur: 888.990.4673 (HOSE)  
www.amiflex.com

Distributed By:

The information presented in this brochure is to be used as a general guide. This literature and other literature from Amiflex Inc. is to provide product options for further investigation by experienced, technically versed users. Due to the varietal nature of operating conditions and applications, the user is solely responsible for making the final selection of the product with full understanding that the performance and safety criteria of the application are met. The product specifications presented here are subject to change without notice.